981494

379 339

3-23-87

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

EPA

I. IDENTIFICATION
01 STATE: ILD | 02 SITE NUMBER: 08964 2706

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Midland Coal Co	Section 20 T.12N.-R.4E.

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Victoria Township	IL	61485	Knox	095	18

09 COORDINATES: LATITUDE 41 00 40.0 | LONGITUDE 090 04 23.0

Galva (75)

10 DIRECTIONS TO SITE (Starting from nearest public road)

See Attached Map

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)		
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 TELEPHONE NUMBER**
			( )

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)		
Midland Coal Co	Unreported		
09 CITY	**10 STATE**	**11 ZIP CODE**	**12 TELEPHONE NUMBER**
Galesburg	IL	61569	( )

13 TYPE OF OWNERSHIP (Check one)
☑ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☑ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☐ YES DATE ___/___/___ (MONTH DAY YEAR)
☑ NO

BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: _____ (Specify)
CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)
☐ A. ACTIVE ☐ B. INACTIVE ☑ C. UNKNOWN

03 YEARS OF OPERATION
BEGINNING YEAR _____ ENDING YEAR _____ ☑ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
Heavy Metals (Toxic/Persistant/Soluble)
Acids (Corrosive/Solable)

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
Ground water (Population/Environment)
Surface Water (Environment)

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☑ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)			03 TELEPHONE NUMBER
				( )
04 PERSON RESPONSIBLE FOR ASSESSMENT	**05 AGENCY**	**06 ORGANIZATION**	**07 TELEPHONE NUMBER**	**08 DATE**
Richard Lange	IEPA	RPMS	(217) 782-6761	02 / 19 / 87 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

000560 MB

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	089642706

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ✓ A SOLID
- B POWDER, FINES
- C SLUDGE
- ✓ E SLURRY
- ✓ F LIQUID
- G GAS
- D OTHER (Specify)

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

- TONS
- CUBIC YARDS: Unk
- NO. OF DRUMS

03 WASTE CHARACTERISTICS (Check all that apply)

- ✓ A TOXIC
- ✓ B CORROSIVE
- C RADIOACTIVE
- ✓ D PERSISTENT
- ✓ E SOLUBLE
- F INFECTIOUS
- G FLAMMABLE
- H IGNITABLE
- I HIGHLY VOLATILE
- J EXPLOSIVE
- K REACTIVE
- L INCOMPATIBLE
- M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS	Unknown		Mine Spoil
BAS	BASES			
MES	HEAVY METALS	Unknown		Mine Spoil

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION

Unknown

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

SIA; Il. State Reclamation Plan for Abandoned Mined Land)

(County Plat; SIA-095-00104; AML: TR #95 m #3

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	089642706

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☑ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE ____) — ☑ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 650
04 NARRATIVE DESCRIPTION
Village of Victoria & rural residents utilize ground water.

01 ☑ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: ____) — ☑ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: NA
04 NARRATIVE DESCRIPTION
Surface Drainage to Snakeden Hollow Creek, only use local recreation, Spoon River is Major reciever and has Recreational Value.

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: ____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ____
04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE ____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED ____
04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: ____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED ____
04 NARRATIVE DESCRIPTION

01 ☑ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE ____) — ☑ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: Udt (Acres)
04 NARRATIVE DESCRIPTION
as associated with Surface mining activity

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE ____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED ____
04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE ____) — ☐ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: ____
04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: ____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ____
04 NARRATIVE DESCRIPTION

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	089642706

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills runoff standing liquids leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: 650

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

IEPA Files (PWS); AML Survey

EXECUTIVE SUMMARY

This site has been placed in the ERRIS/CERCLIS data base as a result of its identification during the Surface Impoundment Assessment (SIA). Certain other sites have recently been added to CERCLIS because of their similar ownership, operator, or proximity to an identified SIA site. The information contained in Section II Site Name and Location: items 01 thru 10 may be found to vary from the existing CERCLIS information; the information contained on EPA Form 2070-12 should be used henceforth as more accurately identifying the site name and location.

Information to complete Form 2070-12 has been acquired from a number of sources including, but not limited to, SIA printouts, CERCLIS, the Illinois State Reclamation Plan for Abandoned Mined Land, and county plat books. Considering the age of certain information, and the lack of specificity, some interpretation and judgement has been required in reporting all information. Where duplication of material with a moderate confidence level occurred, that information has been reported. Where conflicting data has appeared, the most current information with the highest degree of confidence has been used.

The materials of major concern at this location, with potential environmental impact, would be gob piles, acid mine drainage, and impoundments to retain mine drainage and coal wash plant process waters. Low pH and high iron concentrations have long been associated with mine drainage. Iron pyrites and marcasites (FeS_2) constitute approximately 25% of the mineral fraction of Illinois coals and thru a complex oxidation reaction yield H_2SO_4 and $FeSO_4$ providing the sources for low pH and Fe release problems. More recent concerns are being raised because of the ~~heavy metal~~ constituents of mine run coal, which are contained primarily in the mineral fraction and removed to the gob pile, with the pyrites, during initial processing.

USEPA publication EPA-650/2-74-054 summarizes work done by the Illinois State Geological Survey and raises points of concern for this area of Illinois. Pages 33 thru 50 of this report summarize analytical results obtained on four major Illinois coals and fractions of the coals obtained by specific gravity separation techniques. Looking at the Herrin #6 coal member, fractions of 1.60 specific gravity and greater, metals are reported in the following ranges.

	Low	High		Low	High
As:	23.0	244.0 ppm	Ni:	76	102 ppm
Cd:	4.8	152.0 ppm	Pb:	210	2162 ppm
Cr:	31	71.0 ppm	Sb:	2.8	12.0 ppm
Cu:	61	89.0 ppm	Se:	6.8	21.0 ppm
Hg:	0.68	3.80 ppm	V:	60	85 ppm
Mn:	74	457 ppm	Zn:	570	15170 ppm
Mo:	14	215 ppm	Zr:	21	32 ppm

Comparing the above information against surface water quality data reported in "Hydrology of Area 35, Eastern Region, Interior Coal Province, Illinois and Kentucky" published by the U.S. Dept. of Interior, Geologic Survey; open file report #81-403, portions of which are attached, one begins to grasp the potentials for environmental degradation presented by mine drainage. In the USGS study, the maximum concentration of Ni found upstream of mining activity was 10 ppb, whereas downstream, the maximum value was 630 ppb. Mean values of Ni found were 6.1 ppb upstream, and 113 ppb downstream. The values for Ni represent a 63 fold increase of downstream maximum over the upstream maximum. Increases in the maximum concentrations of Cu were 27 fold, Zn at 32 fold, Mg at 11.9 fold, and Al at 2,238 fold increase.

The Illinois Department of Mines and Minerals and numerous private firms are involved in reclamation/remediation activities at a number of these sites. It is entirely possible that this site presents no hazard at this time, but the reverse is also possible. There is no evidence to indicate waste disposal, other than that associated with mine activity. A low priority has been assigned and site inspection activity should be considered on a representative selection of these sites on a time available basis. A higher priority was not assigned because of the regional scope of these sites and the high probability of existing remedial activities at high pollution potential sites.

RML:tk:4/8/49(3/21/86)

Attachment

Non Responsive - personal privacy information